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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/080,113

DATE: 03/11/2002
TIME: 10:51:00

Input Set : A:\62606pa.app
Output Set: N:\CRF3\03112002\J080113.raw

3 <110> APPLICANT: SACHS, GEORGE
 4 VOLAND, PETRA
 6 <120> TITLE OF INVENTION: COMPOSITIONS, TEST KITS AND METHODS FOR DETECTING
 7 HELICOBACTER PYLORI
 9 <130> FILE REFERENCE: 626 06 PA
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/080,113
 C--> 12 <141> CURRENT FILING DATE: 2002-02-21
 14 <160> NUMBER OF SEQ ID NOS: 4
 16 <170> SOFTWARE: PatentIn Ver. 2.1
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 249
 20 <212> TYPE: PRT
 21 <213> ORGANISM: Helicobacter pylori
 23 <400> SEQUENCE: 1
 24 Met Lys Lys Gly Ser Leu Ala Ile Val Leu Gly Ser Leu Leu Ala Ser
 25 1 5 10 15
 27 Gly Ala Phe Tyr Thr Ala Leu Ala Asp Gly Met Pro Ala Lys Gln Gln
 28 20 25 30
 30 His Asn Asn Thr Gly Glu Ser Val Glu Leu His Phe His Tyr Pro Ile
 31 35 40 45
 33 Lys Gly Lys Gln Glu Pro Lys Asn Ser His Leu Val Val Leu Ile Glu
 34 50 55 60
 36 Pro Lys Ile Glu Ile Asn Lys Val Ile Pro Glu Ser Tyr Gln Lys Glu
 37 65 70 75 80
 39 Phe Glu Lys Ser Leu Phe Leu Gln Leu Ser Ser Phe Leu Glu Arg Lys
 40 85 90 95
 42 Gly Tyr Ser Val Ser Gln Phe Lys Asp Ala Ser Glu Ile Pro Gln Asp
 43 100 105 110
 45 Ile Lys Glu Lys Ala Leu Leu Val Leu Arg Met Asp Gly Asn Val Ala
 46 115 120 125
 48 Ile Leu Glu Asp Ile Val Glu Glu Ser Asp Ala Leu Ser Glu Glu Lys
 49 130 135 140
 51 Val Ile Asp Met Ser Ser Gly Tyr Leu Asn Leu Asn Phe Val Glu Pro
 52 145 150 155 160
 54 Lys Ser Glu Asp Ile Ile His Ser Phe Gly Ile Asp Val Ser Lys Ile
 55 165 170 175
 57 Lys Ala Val Ile Glu Arg Val Glu Leu Arg Arg Thr Asn Ser Gly Gly
 58 180 185 190
 60 Phe Val Pro Lys Thr Phe Val His Arg Ile Lys Glu Thr Asp His Asp
 61 195 200 205
 63 Gln Ala Ile Arg Lys Ile Met Asn Gln Ala Tyr His Lys Val Met Val
 64 210 215 220
 66 His Ile Thr Lys Glu Leu Ser Lys Lys His Met Glu His Tyr Glu Lys

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67	225	230	235	240
69	Val Ser Ser Glu Met Lys Lys Arg Lys			
70		245		
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74	<211> LENGTH: 179			
75	<212> TYPE: PRT			
76	<213> ORGANISM: Helicobacter pylori			
78	<400> SEQUENCE: 2			
79	Met Lys Arg Ser Ser Val Phe Ser Phe Leu Val Ala Phe Leu Leu Val			
80	1	5	10	15
82	Ala Gly Cys Ser His Lys Met Asp Asn Lys Thr Val Ala Gly Asp Val			
83	20	25	30	
85	Ser Ala Lys Thr Val Gln Thr Ala Pro Val Thr Thr Glu Pro Ala Pro			
86	35	40	45	
88	Glu Lys Glu Glu Pro Lys Gln Glu Pro Ala Pro Val Val Glu Glu Lys			
89	50	55	60	
91	Pro Ala Val Glu Ser Gly Thr Ile Ile Ala Ser Ile Tyr Phe Asp Phe			
92	65	70	75	80
94	Asp Lys Tyr Glu Ile Lys Glu Ser Asp Gln Glu Thr Leu Asp Glu Ile			
95	85	90	95	
97	Val Gln Lys Ala Lys Glu Asn His Met Gln Val Leu Leu Glu Gly Asn			
98	100	105	110	
100	Thr Asp Glu Phe Gly Ser Ser Glu Tyr Asn Gln Ala Leu Gly Val Lys			
101	115	120	125	
103	Arg Thr Leu Ser Val Lys Asn Ala Leu Val Ile Lys Gly Val Glu Lys			
104	130	135	140	
106	Asp Met Ile Lys Thr Ile Ser Phe Gly Glu Thr Lys Pro Lys Cys Ala			
107	145	150	155	160
109	Gln Lys Thr Arg Glu Cys Tyr Lys Glu Asn Arg Arg Val Asp Val Lys			
110	165	170	175	
112	Leu Met Lys			
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118	<212> TYPE: PRT			
119	<213> ORGANISM: Helicobacter pylori			
121	<400> SEQUENCE: 3			
122	Met Leu Glu Lys Ser Phe Leu Lys Ser Lys Gln Leu Phe Leu Cys Gly			
123	1	5	10	15
125	Leu Gly Val Leu Met Leu Gln Ala Cys Thr Cys Pro Asn Thr Ser Gln			
126	20	25	30	
128	Arg Asn Ser Phe Leu Gln Asp Val Pro Tyr Trp Met Leu Gln Asn Arg			
129	35	40	45	
131	Ser Glu Tyr Ile Thr Gln Gly Val Asp Ser Ser His Ile Val Asp Gly			
132	50	55	60	
134	Lys Lys Thr Glu Glu Ile Glu Lys Ile Ala Thr Lys Arg Ala Thr Ile			
135	65	70	75	80
137	Arg Val Ala Gln Asn Ile Val His Lys Leu Lys Glu Ala Tyr Leu Ser			
138	85	90	95	
140	Lys Thr Asn Arg Ile Lys Gln Lys Ile Thr Asn Glu Met Phe Ile Gln			

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141 100 105 110
143 Met Thr Gln Pro Ile Tyr Asp Ser Leu Met Asn Val Asp Arg Leu Gly
144 115 120 125
146 Ile Tyr Ile Asn Pro Asn Asn Glu Glu Val Phe Ala Leu Val Arg Ala
147 130 135 140
149 Arg Gly Phe Asp Lys Asp Ala Leu Ser Glu Gly Leu His Lys Met Ser
150 145 150 155 160
152 Leu Asp Asn Gln Ala Val Ser Ile Leu Val Ala Lys Val Glu Glu Ile
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155 Phe Lys Asp Ser Val Asn Tyr Gly Asp Val Lys Val Pro Ile Ala Met
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160 <211> LENGTH: 144
161 <212> TYPE: PRT
162 <213> ORGANISM: Helicobacter pylori
164 <400> SEQUENCE: 4
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168 Phe Val Leu Leu Leu Trp Ala Met Asn Val Trp Val Tyr Arg Pro Leu
169 20 25 30
171 Leu Ala Phe Met Asp Asn Arg Gln Ala Glu Ile Lys Asp Ser Leu Ala
172 35 40 45
174 Lys Ile Lys Thr Asp Asn Ala Gln Ser Val Glu Ile Gly His Gln Ile
175 50 55 60
177 Glu Ala Leu Leu Lys Glu Ala Ala Glu Lys Arg Arg Glu Ile Ile Ala
178 65 70 75 80
180 Glu Ala Ile Gln Lys Ala Thr Glu Ser Tyr Asp Ala Val Ile Lys Gln
181 85 90 95
183 Lys Glu Asn Glu Leu Asn Gln Glu Phe Glu Ala Phe Ala Lys Gln Leu
184 100 105 110
186 Gln Asn Glu Lys Gln Ala Leu Lys Glu Gln Leu Gln Ala Gln Met Pro
187 115 120 125
189 Val Phe Glu Asp Glu Leu Asn Lys Arg Val Ala Met Gly Leu Gly Ser
190 130 135 140

VERIFICATION SUMMARY
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L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date